

## ABSTRACT:

The invention provides noise filtering (3) of a signal (x) by estimating (30) a type of noise in the signal (x) and enabling (30) one of at least two noise filters (310,311,312), the enabled noise filter (310,311,312) being a most suitable filter for the estimated type of noise.

5           An approximation of the noise (z) in the signal (x) is obtained by computing (302) a difference between the signal (x) and a noise-filtered (301) version of the signal (x).

          The invention uses (303) a kurtosis of the noise as a metric for estimating the type of noise. If the estimated type of noise is long-tailed noise, a median filter (312) is enabled to filter the signal. If the estimated type of noise is Gaussian noise or contaminated  
10   Gaussian noise, a spatio-temporal filter (310,311) is enabled to filter the signal.

          The invention may be applied in a video system (1) with a camera (2) and a noise filter (3).

Fig. 1

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